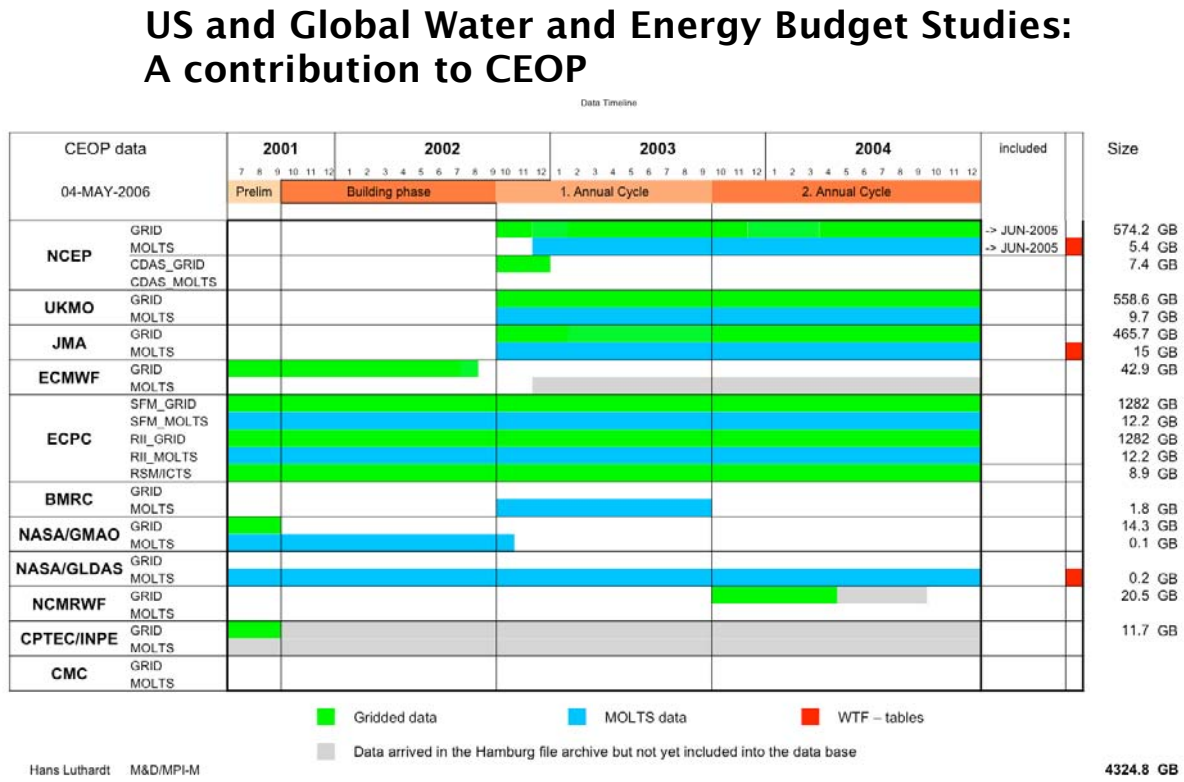

Fig. 1 Model data submitted to MPI archives. Note that we submitted 2 global model and 1 regional model set of data for entire CEOP phase 1 time period.

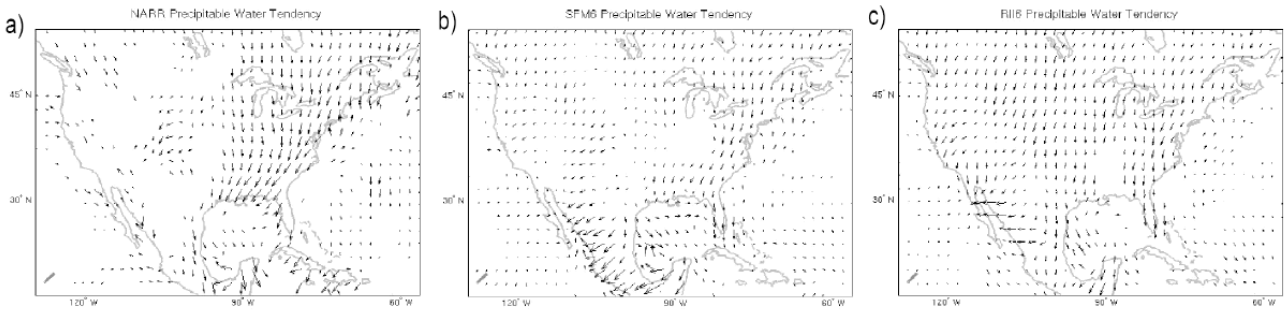

Fig. 2: Harmonics of precipitable water tendency from the *(a)* North American Regional Reanalysis *(c)* Seasonal Forecast Model reanalysis *(b)* Reanalysis-2 during July, August, and September 2001-2003. The length of the vectors represents the amplitude of the diurnal and semidiurnal harmonic reconstruction (the reference length in the Southwest corner represents 10 mm/day), while a Northward (Eastward) pointing vector represents a midnight (6 AM) peak.

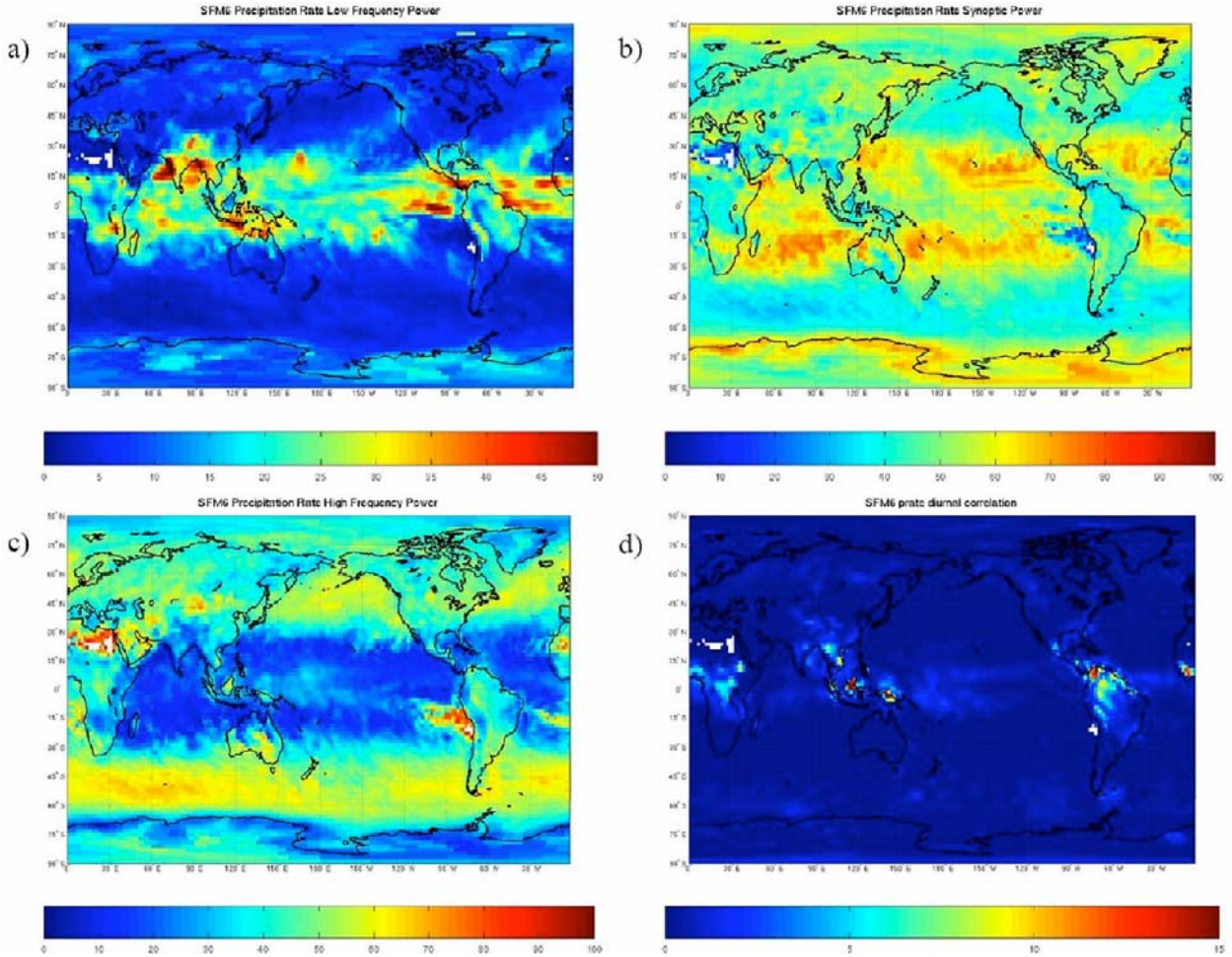

Fig. 3: Percentage variance of July, 2001 – December, 2004 SFM reanalysis precipitation described by (a) low (period > 30 days) (b) Synoptic (period between 2 - 30 days) and (c) high (period < 2 days) frequencies, as well as (d) the diurnal and semidiurnal harmonic reconstruction.

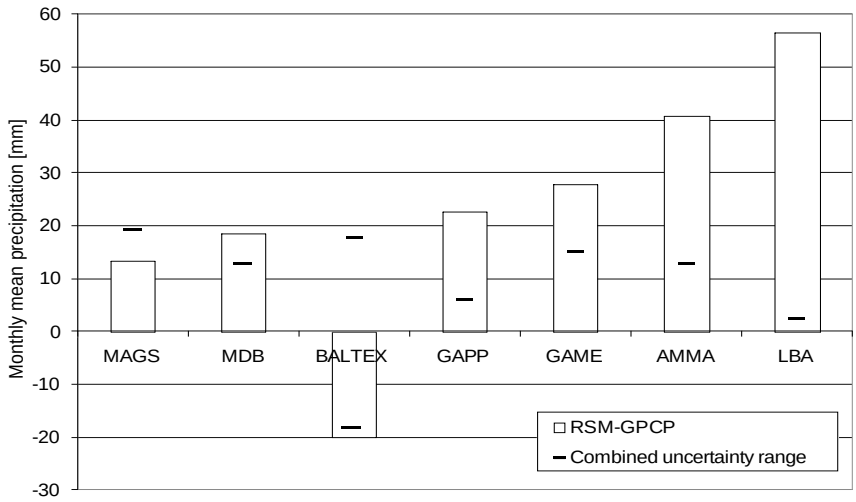

Fig. 4: Differences of precipitation [mm] between RSM simulations GPCP observations, monthly means for EOP III, first half; area means.

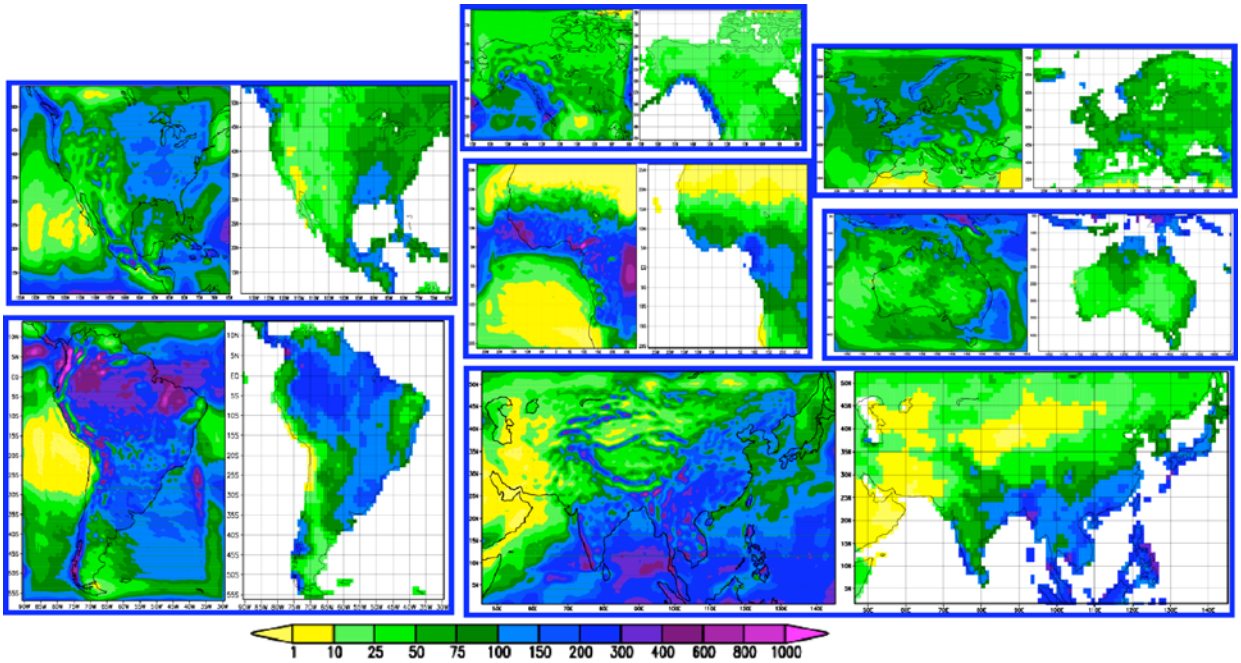

Fig. 5: Monthly precipitation sum; Left: RSM, right: GPCP

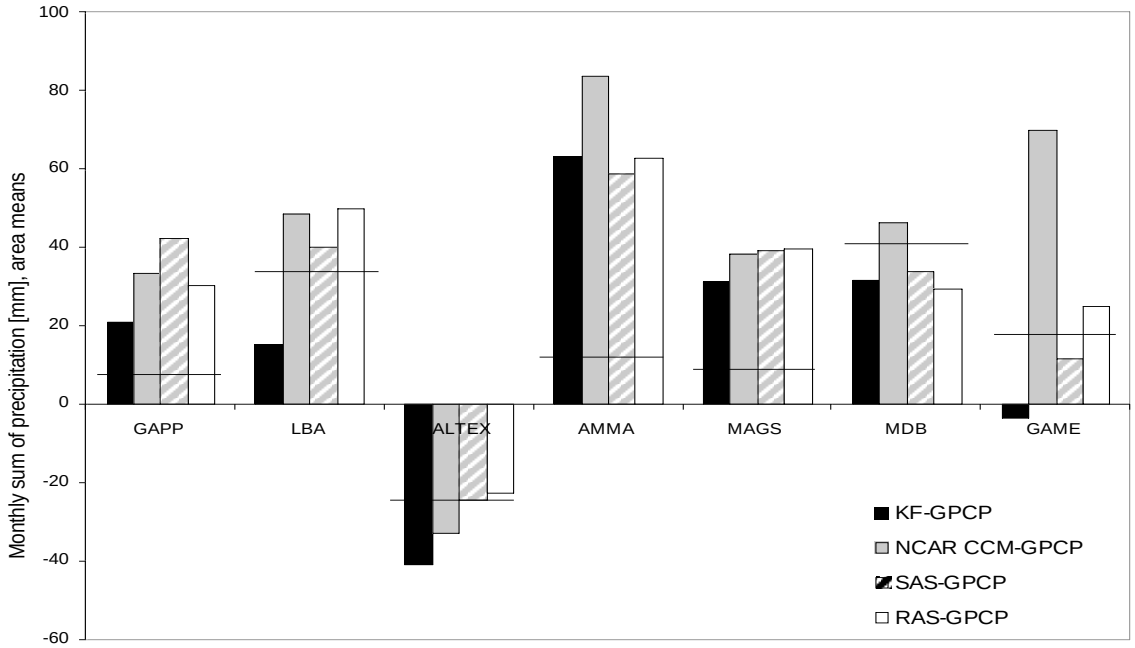

Fig. 6: Differences in precipitation between RSM with different convection schemes minus GPCP, area means during the test months